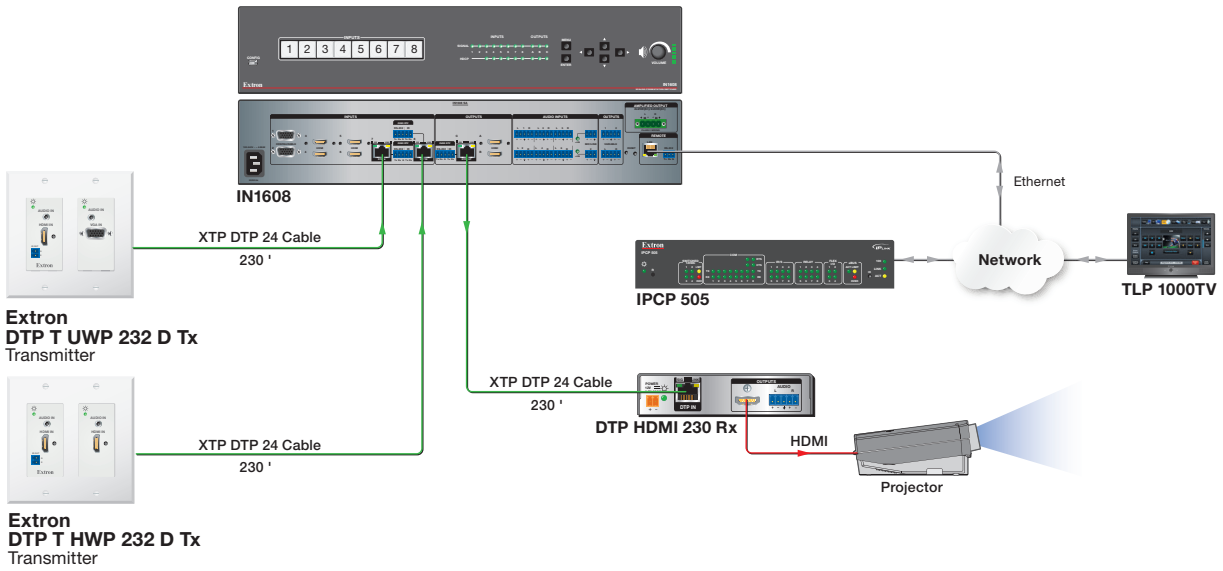
Extron Electronics
INTERFACING, SWITCHING AND CONTROL

IMPORTANT:
Go to www.extron.com for the complete user guide, installation instructions, and specifications before connecting the product to the power source.

DTP T HWP/UWP D 232/332 D • Setup Guide

This setup guide provides instructions for an experienced installer to set up and operate the Extron DTP T HWP D and DTP T UWP D family of wallplate extenders.



A Typical DTP T HWP 232 D and DTP T UWP 232 D Application

Installation

Step 1 — Disconnect Power

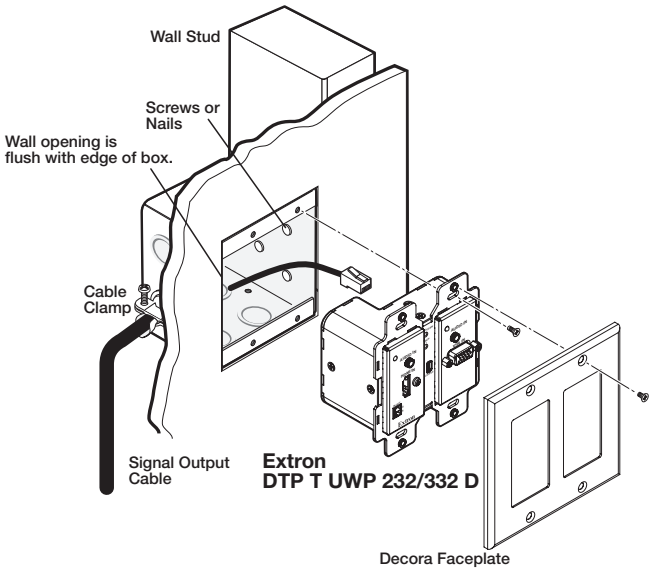
Disconnect all equipment power sources.

Step 2 — Prepare the Mounting Surface

ATTENTION:

- Installation and service must be performed by authorized personnel only.
- The installation shall be in accordance with applicable provisions of the National Electrical Code and any local electrical codes.

NOTE: Use a wall box with a depth of at least 3.0 inches (7.6 cm). Alternatively, the included mud ring (MR 200) can be used. For more information, see the full product user guide at **www.extron.com**.



a. Place the wall box against the installation surface and mark the opening guidelines.

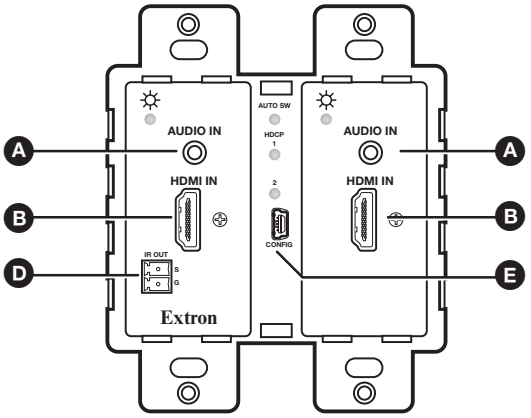
TIP: Use a level to mark the opening.

b. Cut out the material from the marked area.

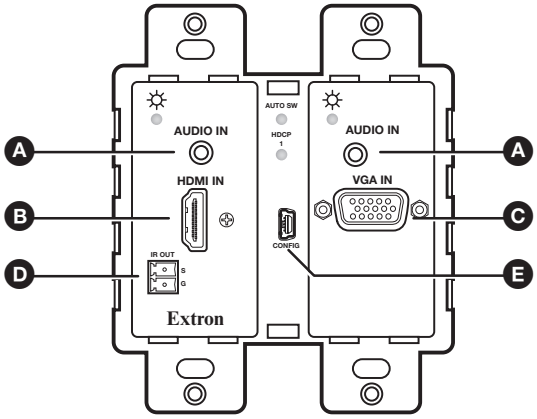
c. Secure the wall box to the wall stud with 10-penny nails or #8 or #10 screws, leaving the front edge flush with the surface.

d. Run all required cables (see steps 3, 4, and 5) and secure them with cable clamps.

TIP: In order to fit the unit in the junction box, do not install boots on TP cables and RJ-45 connectors.



DTP T HWP 232/332 D
Front Panel



DTP T UWP 232/332 D
Front Panel

Step 3 — Connect Inputs to the Transmitter

Front Panel

Ⓐ **Audio input connector** — Connect an unbalanced stereo audio source to this 3.5 mm mini stereo jack.

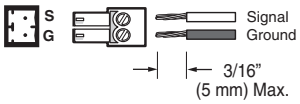
> **NOTE:** The units do NOT embed analog audio onto the HDMI signal. This analog audio signal is transmitted simultaneously with audio embedded within the HDMI signal.

Ⓑ **HDMI input connector** — Connect an HDMI cable between this port and the output port of the digital video source.

Ⓒ **VGA input connector** — Connect a VGA cable between this port and the output port of the video source.

Ⓓ **IR output connector** — Connect an IR device to this 2-pole, 3.5 mm captive screw pass-through connector for IR control. Wire the cable as shown in the illustration to the right.

Ⓔ **Mini USB port** — Connect a male Mini USB B cable to this port for SIS configuration and firmware updates.



Rear Panel

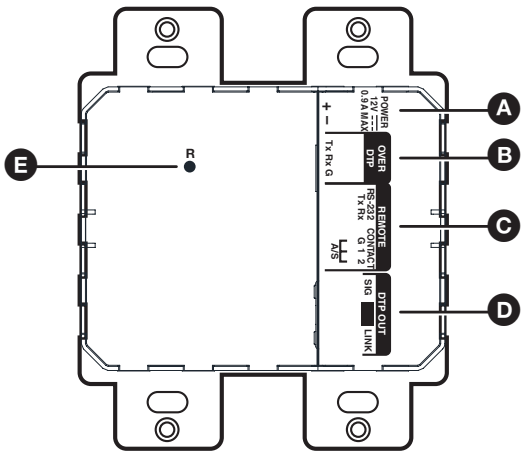
Ⓐ **DC power input connector —** Wire and plug the included external 12 VDC power supply into either this 2-pole connector or the power input connector on the receiver.

> **ATTENTION:** See Step 6 on the following page before wiring or connecting the power supply.

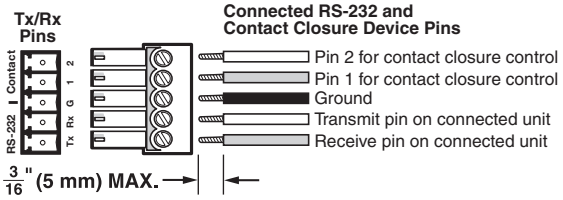
Ⓑ **Over DTP connector** — Connect an RS-232 device to this 3-pole, 3.5 mm captive screw connector for pass-through RS-232 control.

Ⓒ **Remote connector** — Connect an RS-232 device, contact closure device, or both to this 5-pole, 3.5 mm captive screw connector to control switching on the unit. Wire the connector as shown in the diagram to the right.

- **RS-232** — To control the unit through this port, connect an RS-232 device and configure it as follows: 9600 baud rate, 8 data bits, 1 stop bit, no parity.
- **Contact** — Momentarily short pins 1 **or** 2 to ground (G) to select the corresponding input. Connect pins 1 **and** 2 to ground (G) to set the unit to auto switch mode. The device selects the highest active input (auto switch).



DTP T HWP/UWP 232/332 D
Rear Panel



D **DTP OUT connector** — Connect one end of a twisted pair cable to this RJ-45 connector and the opposite end to a compatible receiver.

ATTENTION: Do not connect this device to a telecommunications or computer data network.

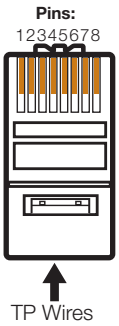
NOTES:

- The DTP T HWP/UWP 232 D models can transmit video, control, and audio (if applicable) signals up to 230 feet (70m).
- The DTP T HWP/UWP 332 D models can transmit video, control, and audio (if applicable) signals up to 330 feet (100m).

E **Reset button** — Use an Extron Tweeker or small screwdriver to press and hold the recessed button for 6 seconds while the switcher is running to perform a factory reset.

Step 4 — Run Cables Between Units

Connect the rear panel transmitter output to a rear panel receiver input using twisted pair cable. Wire the cable as shown in the diagram to the right.



Pin	TIA/EIA T568B Wire color
1	White-orange
2	Orange
3	White-green
4	Blue
5	White-blue
6	Green
7	White-brown
8	Brown

For optimal performance, Extron highly recommends the following:

- RJ-45 termination with shielded twisted pair cable must comply with TIA/EIA-T568B wiring standard for all connections.
  For more information on TP cable wiring and termination, see the full product user guides at **www.extron.com**.
- Use shielded twisted pair cable, 24 AWG solid conductor or better, with a minimum cable bandwidth of 400 MHz.

ATTENTION: Do not use Extron UTP23SF-4 Enhanced Skew-Free AV UTP cable or STP201 cable.

- Use shielded RJ-45 plugs to terminate the cable.
- Limit the use of RJ-45 patches. Overall transmission distance capabilities vary depending on the number of patches used. If possible, limit the number of patches to 2 total.
- If RJ-45 patches must be used in the system, shielded patches are recommended.

Step 5 — Connect the Outputs from a Compatible Receiver

a. **DVI or HDMI output connector** — Connect a DVI or HDMI cable (depending on your receiver type) between this port and the input port of the display.

b. **Audio output** — Connect a stereo audio device to this 3.5 mm mini stereo jack to receive the passed-through unbalanced audio.

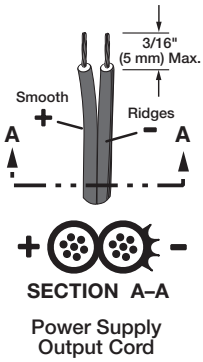
c. **RS-232/IR Pass-Through connector** — Plug an RS-232 or modulated IR device into the RS-232/IR pass-through port.

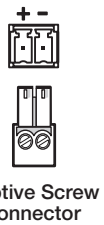
Step 6 — Power the Units

The units can be powered one of two ways:

- Locally with the included power supply. A compatible receiver can then be powered remotely through the DTP line.
- Remotely via the DTP line by a locally powered DTP 230 or 330 compatible device.

Wire the 2-pole captive screw connector for the included external 12 VDC power supply as shown at right.





Step 7 — Final Installation

a. Make all connections, power the units, and test the system for satisfactory operation.

b. At the power outlet, unplug the power supply.

c. Mount the transmitter into the wall box, and attach the supplied Decora faceplate to the unit.

d. At the power outlet, reconnect the power supply. This powers up both units.

Operation

NOTE: Input switching can only be performed via auto switching, RS-232, or contact closure through the rear panel connectors.

After all devices are powered up, the system is fully operational.

Transmitter LEDs

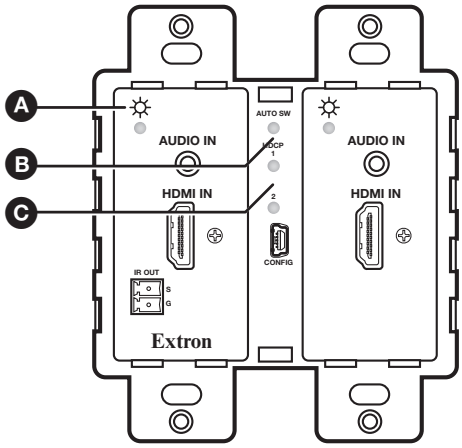
Ⓐ **Power LEDs** — These two-color front panel LEDs on the transmitters light to indicate signal and power status as follows:

Amber — The unit is receiving power but there is no signal on the HDMI or VGA inputs.

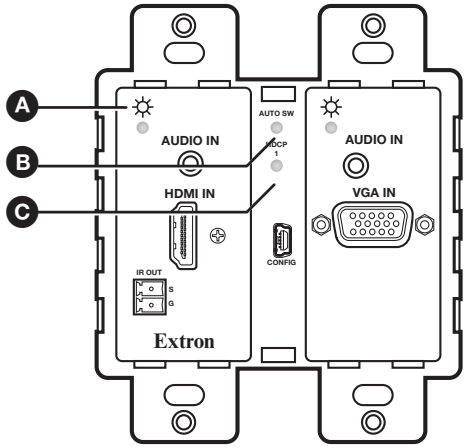
Green — The unit is receiving power and a signal is present on the HDMI or VGA inputs.

Ⓑ **Auto Switch LED** — Lights green when auto switch is active (see Rear Panel Ⓒ on page 2).

Ⓒ **HDCP LED** — Lights green when HDMI input has been authenticated on the source device.



DTP T HWP 232/332 D
Front Panel



DTP T UWP 232/332 D
Front Panel

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